



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE

United States Patent and Trademark Office

Address: COMMISSIONER FOR PATENTS

P.O. Box 1450

Alexandria, Virginia 22313-1450

www.uspto.gov

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/823,600	04/14/2004	Gregory G. Jones	5486-0172PUS1	6239
67321 7590 05/05/2009 BIRCH, STEWART, KOLASCH & BIRCH, LLP PO Box 747 FALLS CHURCH, VA 22040-0747				
EXAMINER				
KARIML PEGEMAN				
ART UNIT		PAPER NUMBER		
2629				
MAIL DATE		DELIVERY MODE		
05/05/2009		PAPER		

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/823,600

Applicant(s)

JONES ET AL.

Examiner

PEGEMAN KARIMI

Art Unit

2629

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 23 January 2009.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1, 2, 5-10, 13, 15-17, 21-23, 25, 26 and 28 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) _____ is/are allowed.
- 6) ☒ Claim(s) 1, 2, 5-10, 13, 15-17, 21-23, 25, 26, and 28 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO/SB/08)
Paper No(s)/Mail Date _____
- 4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date _____
- 5) ☐ Notice of Informal Patent Application
- 6) ☐ Other: _____

DETAILED ACTION

Response to Amendment

1. The amendment filed on 01/23/2009 has been entered and considered by the examiner.

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

3. Claims 1, 2, 6-8, 16, 17, and 21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Batra (U.S. Patent 6,317,061), in view of Salmon (Pub. No. 2003/0048256), and further in view of Lin (U.S. Patent 6,056,458), Chiang (U.S. Patent No. 6,493,215), and Hidefumi (JP 2002-374346A)

As to claim 1, Batra (Fig. 6) discloses a computer keyboard system comprising:

a base (14) having a number pad (204) and

a removable section (12) having an alphanumeric key cluster (147) and a wireless transmitter (Fig. 4B, 370);

the removable section (12) being removably coupleable in a snap-fit fashion to connector located (Fig. 2, the keyboard is in a snap-fit configuration at connectors 32 and 34) on the base (14), (col. 1, lines 62-63) wherein the removable section (12) transmits a signal (Fig. 4B, 52) to a host computer (100) via the base.

The removable section is configurable in an abutment relationship (the base 14 and keyboard 12 are in an abutment relationship, fig. 2) with the base for a user selectable separation process (the user has the option to separate the keyboard from the base), and

wherein upon complete physical detachment of the removable section (removing keyboard 12 from base 14), the host computer (100) and the physically detached removable section (12) remain operably connected to each other via the base (as can be seen in Fig. 4B of Batra the host computer and the removed keyboard section are in communication 52 and 106 through the base 14) which includes a wireless receiver (375) to receive the signal (52) from the wireless transmitter of the removable section (370).

Batra does not teach a biometric reader and the selectable separation process corresponds to the biometric characteristic of the user and also the removable section being removably couplable in a snap-fit fashion to an electro-mechanical connector. Salmon (Fig. 1) teaches a biometric reader (13) for verifying a biometric characteristic of a user (paragraph 68).

and a user selectable separation process (pulling the keyboard from the base, fig. 1) corresponding to the biometric characteristic of the user (fingerprint of the user, [0068], lines 16-23); and

wherein the biometric reader (13) is configured to send a first signal (detecting the fingerprint and communicating with the motherboard) upon verifying the biometric

characteristic of the user at a first instance of time, so as to physically detach the removable section (3) from the electro-mechanical connector (2), and

Salmon also teaches an electro-mechanical connector (32, Figs. 3B and 3C). It can be concluded that by adding the electro-mechanical connector of Salmon to the removable section of Batra the keyboard can be snap-fitted into the base. A person skilled in the art can release the removable section from the base by activating the biometric reader and retracting the electro-mechanical connector's pin.

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to have added the biometric reader of Salmon to the keyboard of Batra because the biometric reader of Salmon would prevent other users to operate the device without permission (i.e. authority) thereby eliminating the security problem caused by other users (see paragraph 68 of Salmon).

Batra and Salmon do not teach a removable section includes a scrolling device. Lin teaches a keyboard (1) wherein the removable section (11, Fig. 2) includes a scrolling device (24)

Therefore it would have been obvious to one of ordinary skilled in the art at the time the invention was made to have added the scrolling device of Lin to the computer keyboard system of Batra as modified by Salmon because by operating the scrolling device on the keyboard and incorporating with the program of the control unit, it can perform the operations of page up, page down in addition to a traditional keyboard operations (col. 2, lines 1-6)

Batra, Salmon, and Lin ('6458) do not mention the transverse grooves are in substantially perpendicular to the connector. Chiang teaches the selectable separation process (separating the keyboard 40 from the base 41) is facilitated by transverse grooves or channels (fig. 2, the transverse channels are 46 and 44) located on the base (the transverse grooves are located on the base, 41) in substantially perpendicular to the connector (when the keyboard 40 is inserted into the base 41, the transverse grooves or channels a are perpendicular to the keyboard) for sidably guiding the removable section away from the electro-mechanical connector (In order for keyboard 40 to come out of the base, the user must slide the grooves out of the channels), (it is possible also to add the electro-mechanical connectors 32 in Figs. 3B and 3C of Salmon to the grooves and channels of Chiang wherein the groove is the sturdy wire 33 and the channel is the hook 35 and pin 36). Therefore it would have been obvious to one of ordinary skilled in the art at the time the invention was made to have added the grooves and channels in a perpendicular position to the keyboard of Chiang to the computer keyboard system of Batra as modified by Salmon and Lin ('6458) because to lock the device in place (col. 4, lines 66-67).

Batra, Salmon, Lin, and Chiang do not teach a second signal to activate the alphanumeric keys of the removable section for operation.

Hidefumi teaches a second signal (finger print data signal sent to the authentication part 11), upon verifying the biometric characteristic of the user at a second instance of time (processing the fingerprint of the user based on the fingerprint data in the memory 10), so as to activate the alphanumeric keys of the removable

section for operation ([0013], line 7 to [0014], line 7), (abstract which mentions The inner face of a flip (7) which covers a microphone (3), a speaker (4) and a keypad (5), has a finger print reader (8) which reads the finger print of the user of the mobile telephone. The operation of the keypad is made active, only when the finger print is authenticated.), therefore it would have been obvious to one of ordinary skilled in the art at the time the invention was made to have added the activating the keypad using a finger print data sensor of Hidefumi to the computer keyboard system of Batra as modified by Salmon, Lin, and Chiang because to prevent unauthorized access and improve the security of the device.

As to claim 16, this claim differs from claim 1 only in that the limitation(s) "a keyboard processor configured to cooperate with a transmitter" and "a fingerprint reader mounted to the keyboard housing" is additionally recited.

Batra (Fig. 4B) discloses a computer keyboard (12) configured for wireless communication (106) with a computer (100), comprising:

- a keyboard housing (14);

- a keyboard processor (col. 2, line 2) configured to cooperate with a transmitter (350) for wireless communication (106) to a computer (col. 2, line 8-10); and

- a removable alphanumeric section (12) removably coupled in a snap-fit fashion to a connector located on the keyboard housing (section 12 is in a snap-fit position by grooves and channels 32, 34 and 33, 35, see fig. 3 of Batra), wherein the removable alphanumeric section having a processor (col. 2, lines 1-2) and

a transmitter (370) for wireless communication (106) to the computer; the alphanumeric section (12) including a group of alphanumeric keys (Fig. 6, 147) being operatively connected to the processor (col. 5, line 53-60).

Batra does not teach a fingerprint reader. Salmon (Fig. 1) teaches a fingerprint reader (13) mounted to the keyboard housing (2) (paragraph 63). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to have used the biometric reader of Salmon to the keyboard of Batra because the biometric reader of salmon would prevent other users to operate the device without permission (i.e. authority) thereby eliminating the security problem caused by other users (see paragraph 68 of Salmon).

Batra and Salmon do not teach a removable section includes a scrolling device. Lin teaches a keyboard (1) wherein the removable section (11, Fig. 2) includes a scrolling device (24).

As to claim 6, Salmon teaches (Fig. 1) a biometric reader (13) comprising a fingerprint reader configured to send the first signal so as to release the removable section (extend the keyboard) from the base (enclosure, 2) responsive to a fingerprint identification of the user (paragraph 68)

As to claims 2 and 17, Batra teaches a computer keyboard (10) system wherein the removable section (12) includes a cursor control device (44).

As to claim 7, Batra (Fig. 6) teaches a computer keyboard system, in which the base (14) includes a receiving portion (130) adapted to substantially enclose the removable section (12) therein (col.6, lines 61-63).

As to claim 21, this claim differs from claim 7 in that the limitation “keyboard housing” is additionally recited. Batra teaches a keyboard housing (14) and a removable alphanumeric section (12).

As to claim 8, Batra (Fig. 2) teaches a computer keyboard (10) system, wherein the removable section (12) removable coupling comprises a media interface (Media interface detail of removable keyboard 12 is shown better in Fig. 6, element 98).

4. Claim 5 is rejected under 35 U.S.C. 103(a) as being unpatentable over Batra, in view of Salmon and further in view of Lin, Chiang (U.S. Patent No. 6,493,215), and Hidefumi (JP 2002-374346A) as applied to claim 1, and further in view Cheng (U.S. Pub. No. 2003/0174123).

As to claim 5, note the discussion of Batra, Salmon, and Lin above. Batra, Salmon, and Lin do not teach a wireless mouse. Cheng (Fig. 4) teaches a computer keyboard (2) system including a wireless mouse (1) configured to wirelessly communicate (paragraph 14) with the wireless receiver (23) of the base (2). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to have added the wireless mouse of Cheng to the keyboard of Batra as modified by Salmon, Lin, and

Chiang because wire and wireless mouse can be substituted each other; the wireless mouse would provide the benefit of carrying from one place to another place easily.

5. Claims 9, 10, 13, 15, 22, 23, 26, and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Batra in view of Salmon, and further in view of Lin ('145), Lin (U.S. Patent 6,056,458), Chiang, and Hidefumi (JP 2002-374346A).

As to claim 9, Batra discloses a computer keyboard system comprising:

a first keyboard housing (14);

a number pad (204) with a key cluster (i.e. 210, 206, 208) and

a second keyboard housing (12) having an alphanumeric section (147); wherein said second keyboard housing is nestable (col. 6, lines 61-62) within a receiving portion (130) of the first keyboard housing and removably coupleable to a connector located (the base and the keyboard are connected through locations 32, 34, and 33, 35, see fig. 3 of Batra), (col. 7, line 28-30) on the first keyboard housing (14) such that when said first keyboard housing and second keyboard housing are coupled together (col. 6, lines 61-62),

Batra teaches the first keyboard housing (14) includes a processor (col. 2, line 2) operable to electrically charge to a mobile power source in the second keyboard housing (battery, col. 4, line 44-45), and

The removable section is configurable in an abutment relationship with the base (the base 14 and keyboard 12 are in an abutment relationship, fig. 2) for a user

selectable separation process (the user has the option to separate the keyboard from the base),

a second key-board housing (12)

wherein upon physical release of the second keyboard housing (12), the first keyboard housing (14) and the physically released second keyboard housing remain operably connected to each other (as can be seen in Fig. 4B of Batra the keyboard 12 and the keyboard housing 14 are connected to each other) via a wireless receiver (375) located on the first keyboard housing to receive a signal from a wireless transmitter located on the second keyboard housing (receiver 375 receives wireless signal 52 from keyboard 12 through transmitter 370); and

Batra does not teach a biometric reader and the selectable separation process corresponds to the biometric characteristic of the user and also an electro-mechanical connector.

Salmon (Fig. 1) teaches a biometric reader (13) for verifying a biometric characteristic of a user, and a user selectable separation process (pulling the keyboard from the base, fig. 1) corresponding to the biometric characteristic of the user (fingerprint of the user, [0068], lines 16-23) to trigger a stand-alone self-powered mode (activating from sleep mode to processing mode) to trigger an input to a processor link for user-based input ([0068], lines 16-23), and

Wherein the biometric reader (13) is configured to send a first electrical signal upon verifying the biometric characteristic of the user at a first instance of time (detecting the fingerprint and communicating with the motherboard), to facilitate physical detachment

of the second keyboard housing (3) from the electro-mechanical connector (2), ([0089], lines 11-19).

Salmon also teaches an electro-mechanical connector (32), ([0068]).

Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to have added the biometric reader of Salmon to the second keyboard housing of Batra because the biometric reader of salmon would prevent other users to operate the device without permission (i.e. authority) thereby eliminating the security problem caused by other users (see paragraph 68 of Salmon).

Batra and Salmon do not teach a processor included in the keyboard housing.

Lin ('145), (Fig. 2) teaches a first keyboard housing (1) including a processor therein (col. 1, line 12-13) Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to have added the built in processor of Lin to the keyboard of Batra as modified by Salmon because the arrangement of the processor in the keyboard of Lin would benefit of replacing all different kinds of connectors easily (see col. 2, lines 28-30 of Lin).

Batra, Salmon, and Lin ('145) do not teach a removable section includes a scrolling device. Lin ('458) teaches a keyboard (1) wherein the second keyboard housing (11, Fig. 2) includes a scrolling device (24) Therefore it would have been obvious to one of ordinary skilled in the art at the time the invention was made to have added the scrolling device of Lin to the computer keyboard system of Batra as modified by Salmon and Lin because by operating the scrolling device on the keyboard and incorporating with the

program of the control unit, it can perform the operations of page up, page down in addition to a traditional keyboard operations (col. 2, lines 1-6).

Batra, Salmon, Lin ('145), and Lin ('458) do not mention the transverse grooves are in substantially perpendicular to the connector. Chiang teaches the selectable separation process (separating the keyboard 40 from the base 41) is facilitated by transverse grooves or channels (fig. 2, the transverse channels are 46 and 44) located on the first keyboard housing (the transverse grooves are located on the first keyboard housing, 41) in substantially perpendicular to the connector (when the keyboard 40 is inserted into the base 41, the transverse grooves or channels are perpendicular to the keyboard) for slidably guiding the removable section away from the electro-mechanical connector (In order for keyboard 40 to come out of the base, the user must slide the grooves out of the channels), (it is possible also to add the electro-mechanical connectors 32 in Figs. 3B and 3C of Salmon to the grooves and channels of Chiang wherein the groove is the sturdy wire 33 and the channel is the hook 35 and pin 36). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to have added the grooves and channels in a perpendicular position to the keyboard of Chiang to the computer keyboard system of Batra as modified by Salmon, Lin ('145) and Lin ('458) because to lock the device in place (col. 4, lines 66-67).

Batra, Salmon, Lin ('145), Lin ('458), and Chiang do not teach a second signal to activate the alphanumeric keys of the removable section for operation.

Hidefumi teaches a second signal (finger print data signal sent to the authentication part 11), upon verifying the biometric characteristic of the user at a second instance of time (processing the fingerprint of the user based on the fingerprint data in the memory 10), so as to activate the alphanumeric keys of the removable section for operation ([0013], line 7 to [0014], line 7), (abstract which mentions The inner face of a flip (7) which covers a microphone (3), a speaker (4) and a keypad (5), has a finger print reader (8) which reads the finger print of the user of the mobile telephone. The operation of the keypad is made active, only when the finger print is authenticated.), therefore it would have been obvious to one of ordinary skilled in the art at the time the invention was made to have added the activating the keypad using a finger print data sensor of Hidefumi to the computer keyboard system of Batra as modified by Salmon, Lin, and Chiang because to prevent unauthorized access and improve the security of the device.

As to claim 22, Batra teaches a computer keyboard configured for communication with a computer (106), comprising:

a keyboard housing (10);

a removable keyboard portion (12) removably coupleable to a connector (connectors 32, 33, 34, and 35) located on the keyboard housing (located on the surface area of base 14, fig. 2), wherein the removable keyboard portion comprising:

an alphanumeric section (40) including a group of alphanumeric keys (40) being operatively connectable to the keyboard processor (51);

a transmitter (370) for wireless communication (Fig. 4B).

Wherein the removable keyboard portion is configurable in an abutment relationship with the keyboard housing (the base 14 and keyboard 12 are in an abutment relationship, fig. 2) for a user selectable separation process (the user has the option to separate the keyboard from the base).

wherein upon physical release of the removable keyboard portion (removing keyboard 12 from the base 14), the computer and the physically released removable keyboard portion remain operably connected to each other via the keyboard housing (as can be seen in Fig. 4B of Batra the removed keyboard is in touch with the host computer via the keyboard base 14) which includes a wireless receiver (375) to receive a signal (52) from the wireless transmitter (370) of the removable keyboard portion (12);

Batra does not teach a biometric reader and a selectable separation process corresponding to the biometric characteristic of the user.

Salmon teaches a biometric reader (7) device configured for communicating with the keyboard processor ([0089], lines 11-19) based on a biometric characteristic of a user (fingerprint is a biometric characteristic, which is unique for each user) and a user selectable separation process (pulling the keyboard from the base, fig. 1) corresponding to the biometric characteristic of the user (fingerprint of the user, [0068], lines 16-23) to trigger a stand-alone self-powered mode (activating from sleep mode to processing

mode) to trigger an input to a processor link for user-based input ([0068], lines 16-23), and

Wherein the biometric reader (13) is configured to send a first electrical signal, upon verifying the biometric characteristic of the user at a first instance of time (detecting the fingerprint and communicating with the motherboard), so as to facilitate physical detachment of the removable keyboard portion (3) from the connector (2), ([0089], lines 11-19). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to have added the biometric reader of Salmon to the removable keyboard portion of Batra because the biometric reader of salmon would prevent other users to operate the device without permission (i.e. authority) thereby eliminating the security problem caused by other users (see paragraph 68 of Salmon).

Batra and Salmon do not teach a processor within the keyboard. Lin ('145) teaches a keyboard processor (col. 1, line 12-11) with in the keyboard housing (Fig. 1, 1) for communicating with the computer (col. 1, line 15-16) Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to have added the built in processor of Lin to the keyboard of Batra as modified by Salmon because the arrangement of the processor in the keyboard of Lin would benefit of replacing all different kinds of connectors easily (see col. 2, lines 28-30 of Lin).

Batra, Salmon, and Lin ('145) do not teach a computer keyboard comprising a scrolling device. Lin ('458) teaches a keyboard (1) comprising a scrolling device (24). Thus, it would have been obvious to one of ordinary skilled in the art at the time the invention was made to have added the scrolling device of Lin to the computer keyboard

system of Batra as modified by Salmon and Lin for the same reason as previously discussed with respect to claim 9.

Batra, Salmon, Lin ('145), and Lin ('458) do not mention the transverse grooves are in substantially perpendicular to the connector. Chiang teaches the selectable separation process (separating the keyboard 40 from the base 41) is facilitated by transverse grooves or channels (fig. 2, the transverse channels are 46 and 44) located in the keyboard housing (the transverse grooves are located in the keyboard housing, 41) in substantially perpendicular to the connector (when the keyboard 40 is inserted into the base 41, the transverse grooves or channels a are perpendicular to the keyboard) for slidably guiding the removable section away from the electro-mechanical connector (In order for keyboard 40 to come out of the base, the user must slide the grooves out of the channels), (it is possible also to add the electro-mechanical connectors 32 in Figs. 3B and 3C of Salmon to the grooves and channels of Chiang wherein the groove is the sturdy wire 33 and the channel is the hook 35 and pin 36).

Batra, Salmon, Lin ('145), Lin ('458), and Chiang do not teach a second signal to activate the alphanumeric keys of the removable section for operation.

Hidefumi teaches a second signal (finger print data signal sent to the authentication part 11), upon verifying the biometric characteristic of the user at a second instance of time (processing the fingerprint of the user based on the fingerprint data in the memory 10), so as to activate the alphanumeric keys of the removable section for operation ([0013], line 7 to [0014], line 7), (abstract which mentions The inner face of a flip (7) which covers a microphone (3), a speaker (4) and a keypad (5), has a

finger print reader (8) which reads the finger print of the user of the mobile telephone.
The operation of the keypad is made active, only when the finger print is authenticated.)

As to claim 10, Batra teaches a computer keyboard (10) system wherein the second keyboard housing (12) includes a cursor control device (44).

As to claim 13, Batra teaches releasing the second keyboard (12) housing from the first keyboard (14), (col. 3, lines 52-53). Batra does not teach a biometric device. Salmon teaches (Fig. 1) a biometric device (13) comprises a fingerprint reader system configured to send the first electrical signal based on fingerprint identification of the user ([0068], lines 16-23).

As to claim 15, Batra (Fig. 2) teaches, a computer keyboard (10) system, wherein the second keyboard housing (12) removable coupling comprises media interface (Fig. 6, 98) configured to cooperate with the processor (col. 4, lines 59-61).

As to claim 23, Batra (Fig. 2) teaches a computer keyboard (10), wherein the removable keyboard portion (12) includes a cursor control device (44).

As to claim 26, Batra teaches the second keyboard housing (12) is removably coupleable to the connector in a snap-fit fashion (the keyboard is connected to the base through grooves and channels 32, 33, 34, and 35, see fig. 3 of Batra).

As to claim 28, Batra teaches the removable keyboard portion (12) is removably coupleable to the connector in a snap-fit fashion (the keyboard is connected to the base through grooves and channels 32, 33, 34, and 35, see fig. 3 of Batra).

6. Claim 25 is rejected under 35 U.S.C. 103(a) as being unpatentable over Batra in view of Salmon, Lin ('145), Lin ('458), Chiang, Hidefumi (JP 2002-374346A) as applied to claim 22 above, and further in view of Cheng (Pub. No. 2003/0174123).

As to claim 25, note the discussion in claim 22, Batra, Salmon, Lin ('145) and Lin ('458) do not teach a wireless mouse. Cheng (Fig. 4) teaches a keyboard (2) including a wireless mouse (1) configured for wireless communication (Paragraph 114) with the computer (3) via the keyboard processor (23). Therefore it would have been obvious to one of ordinary skill in the art at the time the invention was made to have added the wireless mouse of Cheng to the keyboard of Batra as modified by Salmon, Lin ('145), and Lin ('458) because wire and wireless mouse can be substituted each other; the wireless mouse would provide the benefit of carrying from one place to another place easily.

Response to Arguments

7. Applicant's arguments with respect to claims 1, 2, 5-10, 13, 15-17, 21-23, 25, 26, and 28 have been considered but are moot in view of the new ground(s) of rejection.

The newly added reference of Hidefumi (JP 2002-374346A) reads on the newly added limitations.

Applicant in the remarks argues that amended claim 1 now recites new limitations that "first signal, upon verifying the biometric characteristic of the user at a first instance of time, so as to physically detach the removable section from the electro-mechanical connector" and "a second signal, upon verifying the biometric characteristic

of the user at a second instance of time, so as to activate the alphanumeric keys of the removable section for operation".

In the first limitation the first signal is the signal that upon detection of a fingerprint by the sensor 13 the signal is sent to the motherboard and if the fingerprint data matches a previously stored replica of the registered user the electronic latches releases the keyboard and display to be extended for use. As was previously mentioned the reference of Salmon teaches electronic latches wherein upon a verification of users finger print release the latches, this teaching of Salmon can be combined with the reference of Batra wherein the electronic latches of Salmon can be added to the keyboard base 14 of Batra wherein upon a recognition of an authorized users fingerprint the latches can release the removable keyboard 12 from the base 14, this is similar to the reference of Salmon wherein when upon the recognition of an authorized users fingerprint the latches are released and the keyboard can be extended out.

The second added limitation wherein "a second signal, upon verifying the biometric characteristic of the user at a second instance of time, so as to activate the alphanumeric keys of the removable section for operation".

The newly added reference of Hidefumi (JP 2002-374346A) teaches a mobile telephone includes finger print reader to read finger print of user of mobile telephone, and activates keypad operation only if finger print is authenticated. Therefore this reference teaches a second signal, which is the finger print data signal sent to the authentication part 11) and the finger print of the user is verified based on the finger print data in the memory 10, if the users finger print is in the memory the keypad is

activated/unlocked). By adding the limitations of Salmon and Hidefumi to the computer keyboard of Batra one skilled in the art would recognize that at one instance (first instance) the user can release the removable keyboard from the base by using the fingerprint sensor and at another instance (second instance) a user can activate/unlock the keypad of the keyboard using a finger print sensor.

Applicant further argues that in Salmon the keyboard is not completely physically detached from any electro-mechanical connector. Examiner would like to mention that the reference of Salmon teaches electronic latches wherein upon a verification of users finger print release the latches, this teaching of Salmon can be combined with the reference of Batra wherein the electronic latches of Salmon can be added to the keyboard base 14 of Batra wherein upon a recognition of an authorized users fingerprint the latches can release the removable keyboard 12 from the base 14, this is similar to the reference of Salmon wherein when upon the recognition of an authorized users fingerprint the latches are released and the keyboard can be extended out.

Applicant argues that no other signal is sent from the control means to activate the operation keys of the keyboard. The reference of Hidefumi has been added to teach the second signal and a finger print sensor which can read a users fingerprint and then upon recognition of the finger print to activate/unlock the keypad.

Applicant further argues that in Salmon the keyboard is not completely detached from any electro-mechanical connector. Examiner would like to mention that the reference of Salmon is used to teach the finger print sensor 13 and the electro-mechanical latch 32 wherein upon recognition of the users fingerprint the latch 32 as

can be seen in Figs. 3B and 3C becomes open. This limitation of Salmon is added to the removable keyboard of Batra wherein the latch can be located in the grooves 33 and/or 35 and once the latch becomes open it can release the removable keyboard 12 from the base 14.

Conclusion

8. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire **THREE MONTHS** from the mailing date of this action. In the event a first reply is filed within **TWO MONTHS** of the mailing date of this final action and the advisory action is not mailed until after the end of the **THREE-MONTH** shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than **SIX MONTHS** from the date of this final action.

Inquiry

9. Any inquiry concerning this communication or earlier communications from the examiner should be directed to **PEGEMAN KARIMI** whose telephone number is

(571)270-1712. The examiner can normally be reached on Monday-Thursday 9:00am - 5:30pm EST.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Chanh Nguyen can be reached on (571) 272-7772. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Pegeman Karimi/
Examiner, Art Unit 2629
May 1, 2009

/Chanh Nguyen/
Supervisory Patent Examiner, Art
Unit 2629